

**LaJuana S. Wilcher**  
Secretary

# **AIR QUALITY PERMIT**

**Issued under 401 KAR 52:020**  
**Title V Permits**

**Ernie Fletcher**  
Governor



**Commonwealth of Kentucky**  
**Environmental and Public Protection Cabinet**  
**Department for Environmental Protection**  
**Division for Air Quality**  
**803 Schenkel Lane**  
**Frankfort, Kentucky 40601**  
**(502) 573-3382**

**Permittee Name:** East Kentucky Power Cooperative, Inc.  
**Mailing Address:** P.O. Box 707  
Winchester, KY 40392-0707

is authorized to operate an electric power generating plant at Ford, Kentucky.

**Source Name:** William C. Dale Station  
**Mailing Address:** P.O. Box 707, Winchester, Kentucky 40393-0707  
**Source Location:** 1925 Ford Road, Ford, Kentucky, 40320

**Source ID #:** 21-049-00003  
**Activity ID #:** APE20040001  
**AI Number:** 809

**SIC Code:** 4911  
**County:** Clark

**Permit Number:** V-04-038

**Permit Type:** Title V/Acid Rain/NOx Budget

**Regional Office:** Frankfort  
643 Teton Trail, Suite B  
Frankfort, KY 40601-1758  
(502) 564-3358

**Completion Date:** September 24, 2004  
**Issuance Date:**  
**Expiration Date:**

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**John S. Lyons, Director**  
**Division for Air Quality**

## Title V-Operating Permit

East KY Power - Dale Station

Subject Item Inventory

Activity ID No.: APE20040001

### Subject Item Inventory:

ID	Designation	Description
AIOO809		
AREA1	006	Paved & Unpaved Haul Roads
AREA2	006	Coal Stockpile
COMB1	001	255.9 mmBtu/hr Indirect Heat Exchanger Constructed 1954 Primary Fuel - Coal Secondary Fuel - #2 Fuel Oil Control Device: Electrostatic Precipitator (ESP)
COMB2	002	255.9 mmBtu/hr Indirect Heat Exchanger Constructed 1954 Primary Fuel - Coal Secondary Fuel - Fuel Oil #2 Control Device: Electrostatic Precipitator (ESP)
COMB3	003	796.3 mmBtu/hr Indirect Heat Exchanger Constructed 1957 Primary Fuel - Coal Secondary Fuel - Fuel Oil No. 2 Control Device: Electrostatic Precipitator (ESP) & Low Nitrogen Oxide Burners
COMB4	004	756 mmBtu/hr Indirect Heat Exchanger Constructed 1960 Primary Fuel - Coal Secondary Fuel - Fuel Oil No. 2 Control Device: Electrostatic Precipitator (ESP) & Low Nitrogen Oxide Burners
EQPT1	005	Coal Handling Equipment Coal Receiving (3 Coal Receiving Hoppers) Input - 350 tons/hr Constructed 1969

## Title V-Operating Permit

East KY Power - Dale Station

Subject Item Inventory

Activity ID No.: APE20040001

ID	Designation	Description
EQPT2	005	Coal Handling Equipment Transferring and Conveying (7 Transfer Points) Input - 350 tons/hr Constructed 1969
EQPT3	Insignificant Activity	Storage vessels containing petroleum or organic liquids with a capacity of less than 10,567 gallons, providing (a) the vapor of the stored liquid is less than 1.5 psia at storage temperature, or (b) vessels greater than 580 gallons with the stored liquids having greater than 1.5 psia vapor pressure are equipped with a permanent submerged fill pipe.
EQPT4	005	Coal Handling Equipment Coal Crushing Input - 350 tons/hr Constructed 1969
EQPT5	Insignificant Activity	Storage vessels containing inorganic aqueous liquids, except inorganic acids with boiling points below the maximum storage temperature at atmospheric pressure.  Laboratory fume hoods and vents used exclusively for chemical or physical analysis, or for "bench scale production" R & D facilities.  #2 oil-fired space heaters or ovens rated at less than two million BTU per hour actual heat input , provided the maximum sulfur content is less than 0.5% by weight.
EQPT6	Insignificant Activity	Equipment used exclusively for forging, pressing, drawing, stamping, spinning, or extruding metals. This does include emissions due to quenching activities.  Machining of metals, providing solvent usage at the source for this activity does not exceed 60 gallons per month.  Internal combustion engines using only gasoline, diesel fuel, natural gas, or LP gas rated at 50 hp or less.  Machining where an aqueous cutting coolant continuously floods machining interface.

## Title V-Operating Permit

East KY Power - Dale Station

Subject Item Inventory

Activity ID No.: APE20040001

ID	Designation	Description
EQPT7	Insignificant Activity	VOC and hazardous air pollutant storage containers as follows: (a) tanks, less than 1,000 gallons, and throughput less than 12,000 gallons per year; (b) lubricating oils, hydraulic oils, machining oils & fluids.  Degreasing operation, using less than 145 gallons per year.  Maintenance equipment, not emitting HAPs: brazing, cutting torches, soldering, welding.  Blowdown (sight glass, boiler, compressor, pump, cooling tower).  On-site fire & emergency response training.
EQPT8	Insignificant Activity	Wastewater treatment (for stream less than 1% oil and grease).  Sanitary sewage treatment.  Replacement / repair of ESPs, fabric filters, etc.  Heat exchanger cleaning and repair.

### Subject Item Groups:

ID	Description	Components
GACT10	Insignificant Activities	EQPT5 Storage vessels containing inorganic aqueous liquids, except inorganic acids with boiling points below the maximum storage temperature at atmospheric pressure.  Laboratory fume hoods and vents used exclusively for chemical or physical analysis, or for "bench scale production" R & D facilities.  #2 oil-fired space heaters or ovens rated at less than two million BTU per hour actual heat input , provided the maximum sulfur content is less than 0.5% by weight.  EQPT3 Storage vessels containing petroleum or organic liquids with a capacity of less than 10,567 gallons, providing (a) the vapor of the stored liquid is less than 1.5 psia at storage temperature, or (b) vessels greater than 580 gallons with the stored liquids having greater than 1.5 psia vapor pressure are equipped with a permanent submerged fill pipe.

## Title V-Operating Permit

East KY Power - Dale Station

Subject Item Inventory

Activity ID No.: APE20040001

ID	Description	Components
GACT10	Insignificant Activities	<p>EQPT6 Equipment used exclusively for forging, pressing, drawing, stamping, spinning, or extruding metals. This does include emissions due to quenching activities.</p> <p>Machining of metals, providing solvent usage at the source for this activity does not exceed 60 gallons per month.</p> <p>Internal combustion engines using only gasoline, diesel fuel, natural gas, or LP gas rated at 50 hp or less.</p> <p><u>Machining where an aqueous cutting coolant continously floods machining interface.</u></p> <p>EQPT8 Wastewater treatment (for stream less than 1% oil and grease).</p> <p>Sanitary sewage treatment.</p> <p>Replacement / repair of ESPs, fabric filters, etc.</p> <p>Heat exchanger cleaning and repair.</p> <p>EQPT7 VOC and hazardous air pollutant storage containers as follows: (a) tanks, less than 1,000 gallons, and throughput less than 12,000 gallons per year; (b) lubricating oils, hydraulic oils, machining oils &amp; fluids.</p> <p>Degreasing operation, using less than 145 gallons per year.</p> <p>Maintenance equipment, not emitting HAPs: brazing, cutting torches, soldering, welding.</p> <p>Blowdown (sight glass, boiler, compressor, pump, cooling tower).</p> <p>On-site fire &amp; emergency response training.</p>
GACT2	Indirect Heat Exchangers Constructed 1954 Input - 255.9 million British Thermal Units per hour (mmBtu/hr) Primary Fuel - Coal Secondary Fuel - #2 Fuel Oil Control Device: Electrostatic Precipitator (ESP)	<p>COMB1 255.9 mmBtu/hr Indirect Heat Exchanger Constructed 1954 Primary Fuel - Coal Secondary Fuel - #2 Fuel Oil Control Device: Electrostatic Precipitator (ESP)</p>

## Title V-Operating Permit

East KY Power - Dale Station

Subject Item Inventory

Activity ID No.: APE20040001

ID	Description	Components
GACT2	Indirect Heat Exchangers Constructed 1954 Input - 255.9 million British Thermal Units per hour (mmBtu/hr) Primary Fuel - Coal Secondary Fuel - #2 Fuel Oil Control Device: Electrostatic Precipitator (ESP)	COMB2 255.9 mmBtu/hr Indirect Heat Exchanger Constructed 1954 Primary Fuel - Coal Secondary Fuel - Fuel Oil #2 Control Device: Electrostatic Precipitator (ESP)
GACT6	Indirect Heat Exchangers Constructed 1957 & 1960 Input - 796.3 & 756 million British Thermal Units per hour (mmBtu/hr) Primart Fuel - Coal Secondary Fuel - #2 Fuel Oil Control Device: Electrostatic Precipitator (ESP) & Low Nitrogen Oxide Burners	COMB3 796.3 mmBtu/hr Indirect Heat Exchanger Constructed 1957 Primary Fuel - Coal Secondary Fuel - Fuel Oil No. 2 Control Device: Electrostatic Precipitator (ESP) & Low Nitrogen Oxide Burners
		COMB4 756 mmBtu/hr Indirect Heat Exchanger Constructed 1960 Primary Fuel - Coal Secondary Fuel - Fuel Oil No. 2 Control Device: Electrostatic Precipitator (ESP) & Low Nitrogen Oxide Burners
GACT7	Haul Roads and Coal Stockpile	AREA2 Coal Stockpile
		AREA1 Paved & Unpaved Haul Roads
GACT8	Coal Handling Equipment Constructed 1969 Input - 350 tons/hr Control Device: Covered conveyors & low drops	EQPT2 Coal Handling Equipment Transferring and Conveying (7 Transfer Points) Input - 350 tons/hr Constructed 1969
		EQPT4 Coal Handling Equipment Coal Crushing Input - 350 tons/hr Constructed 1969

## Title V-Operating Permit

East KY Power - Dale Station

Subject Item Inventory

Activity ID No.: APE20040001

ID	Description	Components
GACT9	Coal Handling Equipment Coal Receiving (3 Coal Receiving Hoppers) Input - 350 tons/hr Constructed 1969	EQPT1 Coal Handling Equipment Coal Receiving (3 Coal Receiving Hoppers) Input - 350 tons/hr Constructed 1969

### **KEY**

ACTV = Activity

AREA = Area

EQPT = Equipment

PERS = Personnel

STOR = Storage

TRMT = Treatment

AIOO = Agency Interest

COMB = Combustion

MNPT = Monitoring Point

PORT = Transport

STRC = Structure

## Title V-Operating Permit

East KY Power - Dale Station

Facility Requirements

Activity ID No.: APE20040001

Page 1 of 35

### Submittal/Action Requirements:

Condition No.	Condition
S-1	<p>SEMIANNUAL REPORTS:</p> <p>The permittee shall submit report(s): Due semiannually, by the 30th of January and July to the Regional Office listed on the front of this permit at least every six (6) months during the life of this permit, unless otherwise stated in this permit. This report shall be a summary of any monitoring required by this permit, other than continuous emission or opacity monitors. For emission units that were still under construction or which had not commenced operation at the end of the 6-month period covered by the report and are subject to monitoring requirements in this permit, the report shall indicate that no monitoring was performed during the previous six months because the emission unit was not in operation. [Cabinet Provisions and Procedures for Issuing Title V Permits, Section 1b (V)1] All deviations from permit requirements shall be clearly identified in the reports. All reports shall be certified by a responsible official. [401 KAR 52:020, Section 23] Data from all continuous emission and opacity monitors shall be reported to the Technical Services Branch in accordance with the requirements of 401 KAR 59:005, Section 3(3). [401 KAR 52:020 Section 26, 401 KAR 59:005 Section 3(3)]</p>
S-2	<p>EMISSION EXCEEDANCES:</p> <p>The owner or operator shall submit report(s): Due within thirty (30) days of emission related exceedances from permit requirements, including those attributed to upset conditions (other than emission exceedances covered by Requirement D.5); to the Regional Office listed on the front of this permit. Other deviations from permit requirements shall be included in the semiannual reports required by Condition No S-1. [Cabinet Provisions and Procedures for Issuing Title V Permits, Section 1b V(3) and (4)]. [401 KAR 52:020 Section 26]</p>



## Title V-Operating Permit

East KY Power - Dale Station

Facility Requirements

Activity ID No.: APE20040001

Page 2 of 35

### Submittal/Action Requirements:

Condition No.	Condition
S-3	<p><b>COMPLIANCE CERTIFICATION:</b></p> <p>The permittee shall certify compliance with the terms and conditions contained in this permit and shall submit compliance certification: Due annually, by the 30th of January to the Regional Office listed on the front of this permit. Compliance Certification Form (DEP 7007CC) (or an approved alternative) shall be used in accordance with the following requirements:</p> <ol style="list-style-type: none"><li>Identification of each term or condition;</li><li>The compliance status regarding each term or condition of the permit;</li><li>Whether compliance was continuous or intermittent; and</li><li>The method used for determining the compliance status for the source, currently and over the reporting period.</li><li>For an emissions unit that was still under construction or which has not commenced operation at the end of the year covered by the annual compliance certification, the permittee shall indicate that the unit is under construction and that compliance with any applicable requirements will be demonstrated within the timeframes specified in the permit.</li><li>The certification shall be postmarked by January 30th of each year. Annual compliance certifications should be mailed to the Regional Office listed on the front of this permit and the following addresses:</li></ol> <p>U.S. EPA Region IV Air Enforcement Branch Atlanta Federal Center 61 Forsyth St. Atlanta, GA 30303-8960</p> <p>Division for Air Quality Central Files 803 Schenkel Lane Frankfort, KY 40601. [401 KAR 52:020 Section 21]</p>

## Title V-Operating Permit

East KY Power - Dale Station  
Facility Requirements

Activity ID No.: APE20040001

Page 3 of 35

### Submittal/Action Requirements:

Condition No.	Condition
S-4	<p><b>PERFORMANCE TEST NOTICE AND REPORT:</b></p> <p>Pursuant to Section VII 2.(1) of the policy manual of the Division for Air Quality as referenced by 401 KAR 50:016, Section 1.(1), at least one month prior to the date of any required performance test(s), the permittee shall complete and return a Compliance Test Protocol (Form DEP 6027) to the Division's Frankfort Central Office. Pursuant to 401 KAR 50:045, Section 5, the Division shall be notified of the actual test date at least ten (10) days prior to the test.</p> <p>For any performance test(s) required by this permit, the permittee shall submit performance/emission test results: Due within 45 days of the completion of the fieldwork to the Division [Policy Manual of the Division of Air Quality, Section VII.3]. [401 KAR 50:016 Section 1(1)]</p>
S-5	<p><b>PERMIT EXPIRATION AND REAPPLICATION REQUIREMENTS:</b></p> <p>This permit shall remain in effect for a fixed term of five (5) years following the original date of issue. Permit expiration shall terminate the source's right to operate. The permittee shall submit permit application for renewal: Due at least 180 days prior to permit expiration to the Division. Upon a timely and complete submittal, the authorization to operate within the terms and conditions of this permit, including any permit shield, shall remain in effect beyond the expiration date, until the renewal permit is issued or denied by the Division. [401 KAR 52:020 Section 12]</p> <p>The authority to operate granted shall cease to apply if the source fails to submit additional information requested by the Division after the completeness determination has been made on any application, by whatever deadline the Division sets. [401 KAR 52:020 Section 8(2)]</p>

### Narrative Requirements:

Condition No.	Condition
T-1	<p><b>SECTION A. PERMIT AUTHORIZATION.</b> [401 KAR 52:020]</p>

## Title V-Operating Permit

East KY Power - Dale Station

Facility Requirements

Activity ID No.: APE20040001

Page 4 of 35

### Narrative Requirements:

Condition No.	Condition
T-2	<p>A1. Pursuant to a duly submitted application, the Kentucky Division for Air Quality hereby authorizes the operation of the equipment described herein in accordance with the terms and conditions of this permit. This permit has been issued under the provisions of Kentucky Revised Statutes Chapter 224 and regulations promulgated pursuant thereto.</p> <p>The permittee shall not construct, reconstruct, or modify any affected facilities without first having submitted a complete application and received a permit for the planned activity from the permitting authority, except as provided in this permit or in 401 KAR 52:020, Title V Permits.</p> <p>Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by this Cabinet or any other federal, state, or local agency. [401 KAR 52:020]</p>
T-3	SECTION B. SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS. [401 KAR 52:020]
T-4	B1. Compliance with annual emissions and processing limitations contained in this permit, shall be based on emissions and processing rates for any twelve (12) consecutive months [Cabinet Provisions and Procedures for Issuing Title V Permits, Section 1b]. [401 KAR 52:020 Section 26]
T-5	B2. Particulate matter (PT) and sulfur dioxide (SO <sub>2</sub> ) emissions, as measured by methods referenced in 401 KAR 50:015 Section 1, shall not exceed the respective limitations specified herein. [401 KAR Chapter 52]
T-6	SECTION C. SOURCE CONTROL EQUIPMENT REQUIREMENTS. [401 KAR 50:055]
T-7	C1. At all times, including periods of startup, shutdown and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Division which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. [401 KAR 50:055 Section 2(5)]
T-8	SECTION D. MONITORING, RECORD KEEPING, AND REPORTING REQUIREMENTS. [401 KAR 52:020]

## Title V-Operating Permit

East KY Power - Dale Station

Facility Requirements

Activity ID No.: APE20040001

Page 5 of 35

### Narrative Requirements:

Condition No.	Condition
T-9	<p>D.1. When continuing compliance is demonstrated by periodic testing or instrumental monitoring, the permittee shall compile records of required monitoring information that include:</p> <ul style="list-style-type: none"><li>a. Date, place as defined in this permit, and time of sampling or measurements.</li><li>b. Analyses performance dates;</li><li>c. Company or entity that performed analyses;</li><li>d. Analytical techniques or methods used;</li><li>e. Analyses results; and</li><li>f. Operating conditions during time of sampling or measurement [Cabinet Provisions and Procedures for Issuing Title V Permits, Section 1b (IV)(1)]. [401 KAR 52:020 Section 26]</li></ul>
T-10	<p>D.2. Records of all required monitoring data and support information, including calibrations, maintenance records, and original strip chart recordings, and copies of all reports required by the Division for Air Quality, shall be retained by the permittee for a period of five years and shall be made available for inspection upon request by any duly authorized representative of the Division for Air Quality [Cabinet Provisions and Procedures for Issuing Title V Permits, Sections 1b (IV)(2) and 1a (8)]. [401 KAR 52:020 Section 26]</p>
T-11	<p>D.3. The permittee shall allow authorized representatives of the Cabinet to perform the following during reasonable times:</p> <ul style="list-style-type: none"><li>a. To access and copy any records required by the permit;</li><li>b. To inspect any facility, equipment (including monitoring and air pollution control equipment), practice, or operation; and</li><li>c. To sample or monitor substances or parameters to assure compliance with the permit or any applicable requirements.</li></ul> <p>Reasonable times are defined as during all hours of operation, during normal office hours, or during an emergency. [401 KAR 52:020 Section 3(1)(h)]</p>
T-12	<p>D.4. No person shall obstruct, hamper, or interfere with any Cabinet employee or authorized representative while in the process of carrying out official duties. Pursuant to 401 KAR 50:060, Section 2(2), refusal of entry or access may constitute grounds for permit revocation and assessment of civil penalties. [KRS 77.165, 401 KAR 50:060 Section 2(2)]</p>
T-13	<p>D.5. The owner or operator shall notify the Regional Office listed on the front of this permit concerning startups, shutdowns, or malfunctions as follows:</p> <ul style="list-style-type: none"><li>i) When emissions during any planned shutdowns and ensuing startups will exceed the standards, notification shall be made no later than three (3) days before the planned shutdown, or immediately following the decision to shut down, if the shutdown is due to events which could not have been foreseen three (3) days before the shutdown.</li><li>ii) When emissions due to malfunctions, unplanned shutdowns and ensuing startups are or may be in excess of the standards notification shall be made as promptly as possible by telephone (or other electronic media) and shall submit written notice upon request. [401 KAR 50:055 Section 1]</li></ul>

## Title V-Operating Permit

East KY Power - Dale Station

Facility Requirements

Activity ID No.: APE20040001

Page 6 of 35

### Narrative Requirements:

Condition No.	Condition
T-14	D.6. The permittee shall provide the Division with all information necessary to determine its subject emissions within thirty (30) days of the date the KEIS emission report is mailed to the permittee. If a KEIS emission report is not mailed to the permittee, comply with all other emission reporting requirements in this permit. [401 KAR 52:020 Section 3(1)(d)]
T-15	SECTION E. GENERAL PROVISIONS. [401 KAR 52:020]
T-16	E(a) General Compliance Requirements. [401 KAR 52:020]
T-17	E(a)1. The permittee shall comply with all conditions of this permit. Noncompliance shall be a violation of 401 KAR 52:020 and of the Clean Air Act and is grounds for enforcement action including termination, revocation and reissuance, revision or denial of a permit [Cabinet Provisions and Procedures for Issuing Title V Permits, Section 1a (3)]. [401 KAR 52:020 Section 26]
T-18	E(a)2. The filing of a request by the permittee for any permit revision, revocation, reissuance, or termination, or of a notification of a planned change or anticipated noncompliance, shall not stay any permit condition [Cabinet Provisions and Procedures for Issuing Title V Permits, Section 1a (6)]. [401 KAR 52:020 Section 26]
T-19	<p>E(a)3. This permit may be revised, revoked, reopened and reissued, or terminated for cause in accordance with 401 KAR 52:020, Section 19. The permit will be reopened for cause and revised accordingly under the following circumstances:</p> <p>a. If additional requirements become applicable to the source and the remaining permit term is three (3) years or longer. In this case, the reopening shall be completed no later than eighteen (18) months after promulgation of the applicable requirement. A reopening shall not be required if compliance with the applicable requirement is not required until after the date on which the permit is due to expire, unless this permit or any of its terms and conditions have been extended pursuant to 401 KAR 52:020, Section 12;</p> <p>b. The Cabinet or the U. S. EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements;</p> <p>c. The Cabinet or the U. S. EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit;</p> <p>d. If any additional applicable requirements of the Acid Rain Program become applicable to the source. [Acid Rain sources only]</p> <p>Proceedings to reopen and reissue a permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists. Reopenings shall be made as expeditiously as practicable. Reopenings shall not be initiated before a notice of intent to reopen is provided to the source by the Division, at least thirty (30) days in advance of the date the permit is to be reopened, except that the Division may provide a shorter time period in the case of an emergency. [401 KAR 52:020 Section 19]</p>

## Title V-Operating Permit

East KY Power - Dale Station

Facility Requirements

Activity ID No.: APE20040001

Page 7 of 35

### Narrative Requirements:

Condition No.	Condition
T-20	E(a)4. The permittee shall furnish information upon request of the Cabinet to determine if cause exists for modifying, revoking and reissuing, or terminating the permit; or compliance with the conditions of this permit [Cabinet Provisions and Procedures for Issuing Title V Permits, Section 1a (7) and (8)]. [401 KAR 52:020 Section 26]
T-21	E(a)5. The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to the permitting authority. [401 KAR 52:020 Section 7(1)]
T-22	E(a)6. Any condition or portion of this permit which becomes suspended or is ruled invalid as a result of any legal or other action shall not invalidate any other portion or condition of this permit [Cabinet Provisions and Procedures for Issuing Title V Permits, Section 1a (14)]. [401 KAR 52:020 Section 26]
T-23	E(a)7. The permittee shall not use as a defense in an enforcement action the contention that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance [Cabinet Provisions and Procedures for Issuing Title V Permits, Section 1a (4)]. [401 KAR 52:020 Section 26]
T-24	E(a)8. Except for requirements identified in this permit as state-origin requirements, all terms and conditions shall be enforceable by the United States Environmental Protection Agency and citizens of the United States [Cabinet Provisions and Procedures for Issuing Title V Permits, Section 1a (15)(b)]. [401 KAR 52:020 Section 26]
T-25	E(a)9. This permit shall be subject to suspension if the permittee fails to pay all emissions fees within 90 days after the date of notice as specified in 401 KAR 50:038, Section 3 (6) [Cabinet Provisions and Procedures for Issuing Title V Permits, Section 1a (10)]. [401 KAR 52:020 Section 26]
T-26	E(a)10. Nothing in this permit shall alter or affect the liability of the permittee for any violation of applicable requirements prior to or at the time of permit issuance. [401 KAR 52:020 Section 11(3)(b)]
T-27	E(a)11. This permit does not convey property rights or exclusive privileges. [Cabinet Provisions and Procedures for Issuing Title V Permits, Section 1a (9)]. [401 KAR 52:020 Section 26]
T-28	E(a)12. Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by the Kentucky Cabinet for Environmental and Public Protection or any other federal, state, or local agency. [401 KAR Chapter 52]
T-29	E(a)13. Nothing in this permit shall alter or affect the authority of U.S. EPA to obtain information pursuant to Federal Statute 42 USC 7414, Inspections, monitoring, and entry. [401 KAR 52:020 Section 11(3)(d)]
T-30	E(a)14. Nothing in this permit shall alter or affect the authority of U.S. EPA to impose emergency orders pursuant to Federal Statute 42 USC 7603, Emergency orders. [401 KAR 52:020 Section 11(3)(a)]

## Title V-Operating Permit

East KY Power - Dale Station

Facility Requirements

Activity ID No.: APE20040001

Page 8 of 35

### Narrative Requirements:

Condition No.	Condition
T-31	E(a)15. Permit shield - A permit shield shall not protect the owner or operator from enforcement actions for violating an applicable requirement prior to or at the time of issuance. Compliance with the conditions of a permit shall be considered compliance with: (a) Applicable requirements that are included and specifically identified in the permit and (b) Non-applicable requirements expressly identified in this permit. [401 KAR 52:020 Section 11]
T-32	E(a)16. This permit consolidates the authority of any previously issued PSD, NSR, or Synthetic minor source preconstruction permit terms and conditions for various emission units and incorporates all requirements of those existing permits into one single permit for this source. [401 KAR Chapter 51]
T-33	E(a)17. The permittee may conduct test burns of materials other than those listed in the permit without a construction permit or a reopening of this permit provided that:  a) Notification is provided to the Division at least 30 days prior to initiation of the test burning of the material; b) The source complies with all applicable regulations and emission limitations; c) The permittee agrees to perform such additional testing as may be required by the Division. [401 KAR 52:020 Section 10]
T-34	E(a)18. The permanent burning of any materials (addressed in above conditions) shall be allowed upon completion of testing provided that :  a) The Division determines that a permit is not required. Such determination shall be made within sixty (60) days of the application receipt along with the test result; b) The permittee keeps records of date and time of burn; c) The permittee keeps records of analysis and feed rate of material; d) Burning of any of those materials shall not be subject to any applicable regulation and the source shall comply with all applicable regulation and emission limitations. [401 KAR 52:020 Section 10]
T-35	E(a)19. Fugitive emissions shall be controlled in accordance with Regulation 401 KAR 63:010. [401 KAR 52:020]
T-36	E(a)20. Emission limitations listed in this permit shall apply at all times except during periods of startup, shutdown, or malfunctions, and opacity limitations listed in this permit shall apply at all times except during periods of startup and shutdown provided the permittee complies with the requirements of Regulation 401 KAR 50:055. [401 KAR 50:055]
T-37	E(a)21. Pursuant to Section VII 2.(1) of the policy manual of the Division of Air Quality as referenced by Regulation 401 KAR 50:015, Section 1(1), at least one (1) month prior to the date of the required performance test, the permittee shall complete and return a Compliance Test Protocol (Form DEP6027) to the Division's Frankfort Central Office. Pursuant to Regulation 401 KAR 50:045, Section 5, the Division shall be notified of the actual test date at least ten (10) days prior to the test. [401 KAR 50:015 Section 1(1), 401 KAR 50:045 Section 5]

## Title V-Operating Permit

East KY Power - Dale Station

Facility Requirements

Activity ID No.: APE20040001

Page 9 of 35

### Narrative Requirements:

Condition No.	Condition
T-38	E(b) Permit Revisions. [401 KAR 52:020]
T-39	E(b)1. A minor permit revision procedure may be used for permit revisions involving the use of economic incentive, marketable permit, emission trading, and other similar approaches, to the extent that these minor permit revision procedures are explicitly provided for in the SIP or in applicable requirements and meet the relevant requirements of 401 KAR 52:020, Section 14(2). [401 KAR 52:020 Section 14(2)]
T-40	E(b)2. This permit is not transferable by the permittee. Future owners and operators shall obtain a new permit from the Division for Air Quality. The new permit may be processed as an administrative amendment if no other change in this permit is necessary, and provided that a written agreement containing a specific date for transfer of permit responsibility coverage and liability between the current and new permittee has been submitted to the permitting authority within ten (10) days following the transfer. [401 KAR 52:020]
T-41	E(d) Acid Rain Program Requirements. [401 KAR Chapter 52]
T-42	E(d)1. If an applicable requirement of Federal Statute 42 USC 7401 through 7671q (the Clean Air Act) is more stringent than an applicable requirement promulgated pursuant to Federal Statute 42 USC 7651 through 7651o (Title IV of the Act), both provisions shall apply, and both shall be state and federally enforceable. [401 KAR Chapter 52]
T-43	E(e) Emergency Provisions. [401 KAR 52:020]
T-44	E(e)1. An emergency shall constitute an affirmative defense to an action brought for the noncompliance with the technology-based emission limitations if the permittee demonstrates through properly signed contemporaneous operating logs or relevant evidence that: a. An emergency occurred and the permittee can identify the cause of the emergency; b. The permitted facility was at the time being properly operated; c. During an emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements in the permit; and d. Pursuant to 401 KAR 52:020, 401 KAR 50:055, and KRS 224.01-400, the permittee notified the Division as promptly as possible and submitted written notice of the emergency to the Division when emission limitations are exceeded due to an emergency. The notice shall include a description of the emergency, steps taken to mitigate emissions, and corrective actions taken. e. This requirement does not relieve the source from other local, state or federal notification requirements. [401 KAR 52:020 Section 24(1)]
T-45	E(e)2. Emergency conditions listed in General Condition E(f)1 above are in addition to any emergency or upset provision(s) contained in an applicable requirement. [401 KAR 52:020 Section 24(3)]



## Title V-Operating Permit

East KY Power - Dale Station

Facility Requirements

Activity ID No.: APE20040001

Page 10 of 35

### Narrative Requirements:

Condition No.	Condition
T-46	E(e)3. In an enforcement proceeding, the permittee seeking to establish the occurrence of an emergency shall have the burden of proof. [401 KAR 52:020 Section 24(2)]
T-47	E(f) Risk Management Provisions. [401 KAR Chapter 68]
T-48	E(f)1. The permittee shall comply with all applicable requirements of 401 KAR Chapter 68, Chemical Accident Prevention, which incorporates by reference 40 CFR Part 68, Risk Management Plan provisions. If required, the permittee shall comply with the Risk Management Program and submit a Risk Management Plan to  RMP Reporting Center P.O. Box 3346 Merrifield, VA, 22116-3346. [401 KAR Chapter 68]
T-49	E(f)2. If requested, the permittee shall submit additional relevant information to the Division or the U.S. EPA. [401 KAR Chapter 68]
T-50	E(g) Ozone depleting substances. [40 CFR 82]
T-51	E(g)1. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B: a. Persons opening appliances for maintenance, service, repair, or disposal shall comply with the required practices contained in 40 CFR 82.156. b. Equipment used during the maintenance, service, repair, or disposal of appliances shall comply with the standards for recycling and recovery equipment contained in 40 CFR 82.158. c. Persons performing maintenance, service, repair, or disposal of appliances shall be certified by an approved technician certification program pursuant to 40 CFR 82.161. d. Persons disposing of small appliances, MVACs, and MVAC-like appliances (as defined at 40 CFR 82.152) shall comply with the recordkeeping requirements pursuant to 40 CFR 82.166 e. Persons owning commercial or industrial process refrigeration equipment shall comply with the leak repair requirements pursuant to 40 CFR 82.156. f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant shall keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166. [40 CFR 82]
T-52	E(g)2. If the permittee performs service on motor (fleet) vehicle air conditioners containing ozone-depleting substances, the source shall comply with all applicable requirements as specified in 40 CFR 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. [40 CFR 82]
T-53	SECTION F. ACID RAIN PERMIT. [401 KAR 52:060]

## Title V-Operating Permit

East KY Power - Dale Station  
Facility Requirements

Activity ID No.: APE20040001

Page 11 of 35

### Narrative Requirements:

Condition No.	Condition
T-54	<p>ACID RAIN PERMIT CONTENTS</p> <p>1) Statement of Basis</p> <p>2) Comments, notes and justifications regarding permit decisions and changes made to the permit application forms during the review process, and any additional requirements or conditions.</p> <p>3) The permit application submitted for this source. The owners and operators of the source must comply with the standard requirements and special provisions set forth in the Phase II Application and the Phase II NOx Compliance Plan.</p> <p>4) Summary of Actions</p> <p>5) SO2 allowances allocated under this permit and NOx requirements for each affected unit (see emission unit specific requirements). [401 KAR 52:060]</p>
T-55	<p>1) Statement of Basis:</p> <p>Statutory and Regulatory Authorities: In accordance with KRS 224.10-100 and Titles IV and V of the Clean Air Act, the Kentucky Natural Resources and Environmental Protection Cabinet, Division for Air Quality issues this permit pursuant to Regulations 401 KAR 52:020, Permits, 401 KAR 52:060, Acid Rain Permit, and Federal Regulation 40 CFR Part 76. [401 KAR 52:060]</p>
T-56	<p>2) Comments, Notes, and Justifications:</p> <p>Affected units are Units 01 &amp; 02, which are two (2) dry bottom, wall-fired units.</p> <p>Units 01 &amp; 02 currently have no SO2 allowances allocated by U.S. EPA.</p> <p>Units 01 &amp; 02 do not have applicable NOx limits set by 40 CFR part 76. [401 KAR 52:060]</p>
T-57	<p>3) Permit Application:</p> <p>The Phase II Permit Application, the Phase II NOx Compliance Plan, and the Phase II NOx Averaging Plan are all part of this permit and the source must comply with the standard requirements and special provisions set forth in the Phase II Application, the Phase II NOx Compliance Plan, and the Phase II NOx Averaging Plan. [401 KAR 52:060]</p>

## Title V-Operating Permit

East KY Power - Dale Station  
Facility Requirements

Activity ID No.: APE20040001

Page 12 of 35

### Narrative Requirements:

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Condition No.	Condition
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T-58	<p>4) Summary of Actions:</p> <p>Previous Actions:</p> <p>i. Draft Phase II Permit (# AR-96-10) including SO2 compliance was issued for public comments on September 19, 1996.</p> <p>ii. Final Phase II Permit (# AR-96-10) including SO2 compliance plan was issued on December 11, 1996.</p> <p>iii. Draft Phase II Permit (# A-98-013) was issued with the 1998 revised SO2 allowance allocations and NOx emissions standard for public comment on December 23, 1998.</p> <p>iv. Final Phase II Permit (# A-98-013) was issued with the 1998 revised SO2 allowance allocations and NOx emissions standard.</p> <p>v. Phase II Permit (# A-96-10) is hereby null and void.</p> <p>Present Action:</p> <p>i. Draft Title V with Section F Acid Rain Permit is being advertised for public comment. [401 KAR 52:060]</p>

## Title V-Operating Permit

East KY Power - Dale Station

Facility Requirements

Activity ID No.: APE20040001

Page 13 of 35

### Narrative Requirements:

Condition No.	Condition
T-59	<p>NOx BUDGET PERMIT</p> <p>Statement of Basis</p> <p>Statutory and Regulatory Authorities: In accordance with KRS 224.10-100, the Kentucky Natural Resources and Environmental Protection Cabinet issues this permit pursuant to 401 KAR 52:020 Title V permits, 401 KAR 51:160, NOx requirements for large utility and industrial boilers, and 40 CFR 97, Subpart C.</p> <p>NOx Budget Permit Application, Form DEP 7007EE</p> <p>The NOx Budget Permit application for these electrical generating units was submitted to the Division and received on September 18, 2003. Requirements contained in that application are hereby incorporated into and made part of this NOx Budget Permit. Pursuant to 401 KAR 52:020, Section 3, the source shall operate in compliance with those requirements.</p> <p>Comments, notes, justifications regarding permit decisions and changes made to the permit application forms during the review process, and any additional requirements or conditions.</p> <p>Affected units are 03 &amp; 04, which are two (2) dry bottom, wall-fired units.</p> <p>Summary of Actions</p> <p>The NOx Budget Permit is being issued as part of the renewal Title V permit for this source. Public, affected state, and U.S. EPA review will follow procedures specified in 401 KAR 52:100. [401 KAR 51:160]</p>

## Title V-Operating Permit

East KY Power - Dale Station

Facility Requirements

Activity ID No.: APE20040001

Page 14 of 35

### **GACT2 (Em. Pts 001 & 002) Indirect Heat Exchangers Constructed 1954**

#### Limitation Requirements:

Condition No.	Parameter	Condition
L-1	SO2 (Sulfur Dioxide)	<p>Pursuant to 40 CFR 52, Subpart S, the unit shall have emissions of SO2 (Sulfur Dioxide) <math>\leq</math> 1.8 lb/mm Btu actual heat input, each.</p> <p>Compliance Demonstration</p> <p>Refer to the continuous emission monitor (CEM) monitoring requirements for this unit..</p> <p>Limitation. [401 KAR 61:015 Section 5] This requirement is applicable during the following months: All Year. Statistical basis: 24-hour average.</p>
L-2	PT (Particulate Matter)	<p>The unit shall have emissions of PT (Particulate Matter) <math>\leq</math> .217 lb/mm Btu actual heat input, each.</p> <p>Compliance Demonstration</p> <p>Refer to the continuous opacity monitor (COM) monitoring requirements for this unit.</p> <p>Limitation. [401 KAR 61:015] This requirement is applicable during the following months: All Year. Statistical basis: Three-hour average.</p>
L-3	Visible Emissions	<p>The unit shall have Visible Emissions <math>\leq</math> 40 % opacity unless otherwise allowed in this permit. [401 KAR 61:015 Section 4(3)] This requirement is applicable during the following months: All Year. Statistical basis: Six-minute average.</p>
L-4	Visible Emissions	<p>Visible Emissions <math>\leq</math> 60 % opacity shall be permitted for not more than one 6 minute period in any 60 consecutive minutes. [401 KAR 61:015 Section 4(3)] This requirement is applicable during the following months: All Year. Statistical basis: One-hour period.</p>

## Title V-Operating Permit

East KY Power - Dale Station

Facility Requirements

Activity ID No.: APE20040001

Page 15 of 35

### Narrative Requirements:

#### Applicable Regulations:

Condition No.	Condition
T-1	Applicable Regulations: Existing Indirect Heat Exchangers applies to existing affected facilities more than 250 mmBtu/hr commenced before August 17, 1971. [401 KAR 61:015]

#### Additional Limitations:

Condition No.	Condition
T-2	Additional Limitations: There is no limit to visible emissions opacity while building a new fire provided a manufacturer recommended method is used and the manufacturer recommended time frame for bringing the boiler up to operating conditions is not exceeded. [401 KAR 61:015 Section 4(2)]

#### Recordkeeping:

Condition No.	Condition
T-3	<p>Recordkeeping:</p> <p>Specific Recordkeeping Requirements:</p> <p>(a) Records shall be kept in accordance with the Regulations 401 KAR 61:005, Section 3(16)(f) and 61:015, Section 6, with the exception that the records shall be maintained for a period of five (5) years. Percentage of the COM data (excluding startup, shutdown, malfunction data) showing excursions above the opacity standard in each calendar quarter shall be computed and recorded.</p> <p>(b) The permittee shall maintain the results of all compliance tests. [401 KAR 52:020]</p>
T-4	Recordkeeping: Record the ash content of the fuel when monitored. [401 KAR 61:015 Section 6]
T-5	Recordkeeping: Record the heating value of the fuel when monitored. [401 KAR 61:015 Section 6]
T-6	Recordkeeping: Record the average daily electrical output, the daily minimum hourly generation rate, and the daily maximum hourly generation rate. [401 KAR 61:015 Section 6(3)]

## Title V-Operating Permit

East KY Power - Dale Station

Facility Requirements

Activity ID No.: APE20040001

Page 16 of 35

### Narrative Requirements:

#### Monitoring:

Condition No.	Condition
T-7	<p>Monitoring: Specific Monitoring Requirements:</p> <p>a) Continuous emissions monitoring systems shall be installed, calibrated, maintained, and operated for measuring sulfur dioxide emissions and either oxygen or carbon dioxide emissions. The continuous emission monitoring shall comply particularly with Performance Specification 2 of Appendix B to 40 CFR 60 or 40 CFR 75, Appendix A. [401 KAR 61:005 Section 3]</p>
T-8	<p>Monitoring:</p> <p>b) Pursuant to material incorporated by reference by 401 KAR 52:020, Section 10, to meet the periodic monitoring requirement for particulate, the permittee shall use a continuous opacity monitor (COM). The average performance test opacity level, measured by the COM, shall be established during the EPA Reference Method 5 performance testing and used as a factor for the PM emission limit compliance demonstration, under the condition that the EPA Reference Method 5 testing results show compliance with the PM emissions limits for the unit. The average performance test opacity level, plus 5% opacity, will become the opacity trigger level. Excluding the startup, shut down, and once per hour exemption periods, if any six-minute average opacity value averaged over a three-hour period exceeds the opacity trigger level, the permittee shall, as appropriate, initiate an inspection of the control equipment and/or the COM system and make any necessary repairs. If five (5) percent or greater of the COM data (excluding startup, shut down, and malfunction periods, data averaged over six minute period) recorded in a calendar quarter show excursions above the opacity trigger level, the permittee shall perform a stack test in the following calendar quarter to demonstrate compliance with the particulate standard while operating at representative conditions. The permittee shall submit a compliance test protocol as required by the Performance Test Notice and Report requirements in the General Conditions of this permit before conducting test. The Division may waive this testing requirement upon a demonstration that the cause(s) of the excursions have been corrected, or may require a stack test at any time pursuant to 401 50:045, Performance Test. [40 CFR 64, 401 KAR 52:020]</p>
T-9	<p>Monitoring:</p> <p>c) To meet the periodic monitoring requirement for opacity, the permittee shall use a continuous opacity monitor (COM). Excluding the startup, shutdown, and once per hour exemption periods, if any six-minute average opacity value exceeds the opacity standard, the permittee shall, as appropriate, initiate an inspection of the control equipment and/or COM system and make any necessary repairs. If visible emissions are seen, then opacity must be determined using Reference Method 9, or by accepting the concurrent readout from the COM and the permittee shall perform an inspection of the control equipment and make any necessary repairs. If a Method 9 cannot be performed, the reason for not performing the test shall be documented. [401 KAR 52:020 Section 10]</p>
T-10	<p>Monitoring:</p> <p>d) To meet the periodic monitoring requirement for sulfur dioxide, the permittee shall use a continuous emission monitor (CEM). Excluding the startup and shutdown periods, if any 24-hour average sulfur dioxide value exceeds the standard, the permittee shall, as appropriate, initiate an investigation of the cause of the exceedence and/or the CEM system and make any necessary repairs or take corrective actions as soon as practicable. [401 KAR 52:020 Section 10]</p>

## Title V-Operating Permit

East KY Power - Dale Station

Facility Requirements

Activity ID No.: APE20040001

Page 17 of 35

### Narrative Requirements:

#### Monitoring:

Condition No.	Condition
T-11	Monitoring: e) A continuous monitoring system for opacity shall conform to requirements of this section which include installing, calibrating, operating, and maintaining the continuous monitoring system for accurate opacity measurement, and demonstrating compliance with the applicable Performance Specification 1 of 40 CFR 60, Appendix B. [401 KAR 61:005 Section 3]
T-12	Monitoring: The sulfur content monitored by fuel supplier certification for each fuel shipment received shall be determined. This requirement is applicable during the following months: All Year. Statistical basis: Instantaneous determination. [401 KAR 61:015 Section 6]
T-13	Monitoring: The amount of each fuel combusted shall be determined for the unit and monitored by approved method(s) daily. This requirement is applicable during the following months: All year. Statistical basis: Instantaneous determination. [401 KAR 61:015 Section 6]
T-14	Monitoring: The minimum and maximum 1-hour generation rates and the average electrical power output monitored by acceptable method(s) shall be measured daily. This requirement shall be applicable during the following months: All Year. Statistical basis: Acceptable basis. [401 KAR 61:015 Section 6(3)]
T-15	Monitoring: The ash content monitored by fuel supplier certification for each fuel shipment received shall be determined. This requirement is applicable during the following months: All year. Statistical basis: Instantaneous determination. [401 KAR 61:015 Section 6]
T-16	Monitoring: The heating value monitored by fuel supplier certification for each fuel shipment received shall be determined. This requirement is applicable during the following months: All year. Statistical basis: Instantaneous determination. [401 KAR 61:015 Section 6]



## Title V-Operating Permit

East KY Power - Dale Station

Facility Requirements

Activity ID No.: APE20040001

Page 18 of 35

### Narrative Requirements:

#### Monitoring:

Condition No.	Condition
T-17	<p>Monitoring:</p> <p>Compliance Assurance Monitoring (CAM)</p> <p>Pursuant to 40 CFR 64, in order to demonstrate compliance with the particulate matter (PT) emission limit and assurance of proper function of the control equipment:</p> <p>Monitoring Methods: Installation of COM at the outlet of the ESP and monitoring of the ESP electrical field and other relevant parameters.</p> <p>Indicator Range: (1) Use established COM and equipment parameter indicator ranges, including ESP electrical fields, as appropriate or (2) establish compliance with the PM limit at 20% opacity. The permittee must conduct weekly stack observations. If visible emissions are seen, the permittee must conduct an EPA Reference Method 9 observation to determine the opacity of the emissions.</p> <p>Data Collection Frequency: (1) Continuous COM and control device operating parameters, or (2) weekly observations.</p> <p>Averaging Period: (1) Opacity - 6 minute averages COM control device parameters - 3 hours, or (2) Visible Emission Surveys - 1 minute: EPA Reference Method 9</p> <p>Recordkeeping: COM data system records and control device parameters will be maintained for a period of 5 years or visible observation records and EPA Reference Method 9 observations will be kept in designated logbook and maintained for a period of 5 years.</p> <p>Quality Control: COM will be maintained and operated in accordance with 401 59:005/40 CFR Appendix B and/or other requirements as are applicable, ESP monitored parameters will be maintained and operated in accordance with manufacturer recommendations; or records of EPA Reference Method 9 certifications will be maintained. [40 CFR 64]</p>

## Title V-Operating Permit

East KY Power - Dale Station

Facility Requirements

Activity ID No.: APE20040001

Page 19 of 35

### Narrative Requirements:

#### Reporting Requirements:

Condition No.	Condition
T-18	<p>Reporting Requirements:</p> <p>Specific Reporting Requirements:</p> <p>a) Pursuant to Regulation 401 KAR 61:005, Section 3 (16), minimum data requirements which follow shall be maintained and furnished in the format specified by the Division.</p> <p>1. Owners and operators of facilities required to install continuous monitoring systems for opacity and sulfur dioxide or those utilizing fuel sampling and analysis for sulfur dioxide emissions shall submit for every calendar quarter, a written report of excess emissions and the nature and cause of the excess emissions if known. The average period used for data reporting should correspond to the emission standard averaging period which is a twenty-four (24) hour averaging period. All quarterly reports shall be postmarked by the thirtieth (30th) day following the end of each calendar quarter. [401 KAR 61:005 Section 3(16)]</p>
T-19	<p>Reporting Requirements:</p> <p>2. For gaseous measurements the summary shall consist of hourly averages in the units of the applicable standard. [401 KAR 61:005 Section 3(16)(c)]</p>
T-20	<p>Reporting Requirements:</p> <p>3. The date and time identifying each period during which the continuous monitoring system was inoperative, except for zero and span checks, and the nature of system repairs or adjustments shall be reported. Proof of continuous monitoring system performance is required as specified by the Division whenever system repairs or adjustments have been made. [401 KAR 61:005 Section 3(16)(d)]</p>
T-21	<p>Reporting Requirements:</p> <p>4. When no excess emissions have occurred and the continuous monitoring system(s) have not been inoperative, repaired, or adjusted, such information shall be included in the report. [401 KAR 61:005 Section 3(16)(e)]</p>
T-22	<p>Reporting Requirements:</p> <p>5. The permittee shall report the number of excursions (excluding startup, shutdown, malfunction data) above the trigger level, date and time excursions, opacity value of the excursions, and the percentage of the COM data showing excursions above the trigger level in each calendar quarter. [401 KAR 61:005 Section 16]</p>

## Title V-Operating Permit

East KY Power - Dale Station

Facility Requirements

Activity ID No.: APE20040001

Page 20 of 35

### Narrative Requirements:

Condition No.	Condition
T-23	Testing Requirements:  a) The permittee shall submit a schedule within six months from the issuance date of this permit to conduct at least one performance test for particulate within one year following the issuance of this permit. [401 KAR 61:005 Section 2]
T-24	b) If no additional stack test are performed pursuant to Condition b) of "Specific Monitoring Requirements", the permittee shall conduct a performance test for particulate emissions within the third year of the term of this permit to demonstrate compliance with the applicable standard. [401 KAR 61:005 Section 2]
T-25	Specific Control Equipment Operating Conditions:  (a) The electrostatic precipitator shall be operated to maintain compliance with permitted emission limitations, in accordance with manufacturer's specifications and/or good operating practices.  (b) Records regarding the maintenance of the electrostatic precipitator shall be maintained.  (c) See Section C for further requirements. [401 KAR 52:020]

## Title V-Operating Permit

East KY Power - Dale Station  
Facility Requirements

Activity ID No.: APE20040001

Page 21 of 35

### GACT6 (Em. Pts 003 & 004) Indirect Heat Exchangers Constructed 1957 & 1960

#### Limitation Requirements:

Condition No.	Parameter	Condition
L-1	SO2 (Sulfur Dioxide)	<p>Pursuant to 40 CFR 52, Subpart S, the unit shall have emissions of SO2 (Sulfur Dioxide) <math>\leq</math> 1.8 lb/mm Btu actual heat input, each.</p> <p>Compliance Demonstration</p> <p>Refer to the continuous emission monitor (CEM) monitoring requirements for this unit.</p> <p>Limitation. [401 KAR 61:015 Section 5] This requirement is applicable during the following months: All Year. Statistical basis: 24-hour average.</p>
L-2	PT (Particulate Matter)	<p>Pursuant to Regulation No. 7, the unit shall have emissions of PT (Particulate Matter) <math>\leq</math> .316 lb/mm Btu actual heat input, each.</p> <p>Compliance Demonstration</p> <p>Refer to the continuous opacity monitor (COM) monitoring requirements for this unit.</p> <p>Limitation. [401 KAR 61:015 Section 4(4)] This requirement is applicable during the following months: All Year. Statistical basis: Three-hour average.</p>
L-3	Visible Emissions	<p>Pursuant to Regulation No. 7, the unit shall have Visible Emissions <math>\leq</math> 40 % opacity unless otherwise allowed in this permit. [401 KAR 61:015 Section 4(3)] This requirement is applicable during the following months: All Year. Statistical basis: Six-minute average.</p>
L-4	Visible Emissions	<p>Pursuant to Regulation No. 7, Visible Emissions <math>\leq</math> 60 % opacity shall be permitted for not more than one (1) six (6) minute period in any 60 consecutive minutes during the building of a new fire, cleaning the firebox, or blowing soot. [401 KAR 61:015 Section 4(3)] This requirement is applicable during the following months: All Year. Statistical basis: One-hour period.</p>

## Title V-Operating Permit

East KY Power - Dale Station

Facility Requirements

Activity ID No.: APE20040001

Page 22 of 35

### Narrative Requirements:

#### Applicable Regulations:

Condition No.	Condition
T-1	Applicable Regulations: Existing Indirect Heat Exchangers applies to existing affected facilities greater than 250 mmBtu/hr commenced before August 17, 1971. [401 KAR 61:015]
T-2	Applicable Regulations: Regulation 7, Prevention and Control of emissions of particulate matter from combustion of fuel in indirect heat exchangers. [401 KAR 61:015 Section 4(4)]

#### Additional Limitations:

Condition No.	Condition
T-3	Additional Limitations: There is no limit to visible emissions opacity while building a new fire provided a manufacturer recommended method is used and the manufacturer recommended time frame for bringing the boiler up to operating conditions is not exceeded. [401 KAR 61:015 Section 4(2)]

#### Recordkeeping:

Condition No.	Condition
T-4	Recordkeeping: Record the ash content of the fuel when monitored. [401 KAR 61:015 Section 6]
T-5	Recordkeeping: Record the heating value of the fuel when monitored. [401 KAR 61:015 Section 6]
T-6	Recordkeeping: Record the average daily electrical output, the daily minimum hourly generation rate, and the daily maximum hourly generation rate. [401 KAR 61:015 Section 6(3)]
T-7	Recordkeeping:

#### Specific Record Keeping Requirements:

a) Records shall be kept in accordance with Regulation 401 KAR 61:005, Section 3(16)(f) and 61:015, Section 6, with the exception that the records shall be maintained for a period of five (5) years. Percentage of the COM data (excluding startup, shutdown and malfunction data) showing excursions above the opacity standard in each calendar quarter shall be computed and recorded. [401 KAR 61:005 Section 3]

## Title V-Operating Permit

East KY Power - Dale Station

Facility Requirements

Activity ID No.: APE20040001

Page 23 of 35

### Narrative Requirements:

#### Recordkeeping:

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Condition

No. Condition

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T-8 Recordkeeping: b) The permittee shall maintain the results of all compliance tests. [401 KAR 61:005 Section 3]

#### Monitoring:

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Condition

No. Condition

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T-9 Monitoring: The Sulfur Content monitored by fuel supplier certification for each fuel shipment received shall be determined. This requirement is applicable during the following months: All Year. Statistical basis: Instantaneous determination. [401 KAR 61:015 Section 6]

T-10 Monitoring: The amount of each fuel combusted shall be determined for the unit and monitored by approved method(s) daily. This requirement is applicable during the following months: All year. Statistical basis: Instantaneous determination. [401 KAR 61:015 Section 6]

T-11 Monitoring: The minimum and maximum 1-hour generation rates and the average electrical power output monitored by acceptable method(s) shall be measured daily. This requirement is applicable during the following months: All Year. Statistical basis: Acceptable basis. [401 KAR 61:015 Section 6(3)]

T-12 Monitoring: The ash content monitored by fuel supplier certification for each fuel shipment received shall be determined. This requirement is applicable during the following months: All Year. Statistical basis: Instantaneous determination. [401 KAR 61:015 Section 6]

T-13 Monitoring: The heating value monitored by fuel supplier certification for each fuel shipment received shall be determined. This requirement is applicable during the following months: All Year. Statistical basis: Instantaneous determination. [401 KAR 61:015 Section 6]

T-14 Monitoring:

Specific Monitoring Requirements:

a) Continuous emissions systems monitoring shall be installed, calibrated, maintained, and operated for measuring sulfur dioxide emissions and either oxygen or carbon dioxide emissions. The continuous emission monitoring shall comply particularly with Performance Specification 2 of Appendix B to 40 CFR 60 or 40 CFR 75, Appendix A. [401 KAR 61:005 Section 3, 401 KAR 52:020 Section 10]

## Title V-Operating Permit

East KY Power - Dale Station

Facility Requirements

Activity ID No.: APE20040001

Page 24 of 35

### Narrative Requirements:

#### Monitoring:

Condition No.	Condition
T-15	<p>Monitoring:</p> <p>b) Pursuant to material incorporated by reference by 401 KAR 52:020, Section 10, to meet the periodic monitoring requirement for particulate, the permittee shall use a continuous opacity monitor (COM). The average performance test opacity level, measured by the COM, shall be established during the EPA Reference Method 5 performance testing and used as a factor for the PM emission limit compliance demonstration, under the condition that the EPA Reference Method 5 testing results show compliance with the PM emissions limits for the unit. The average performance test opacity level, plus 5% opacity, will become the opacity trigger level. Excluding the startup, shut down, and once per hour exemption periods, if any six-minute average opacity value averaged over a three-hour period exceeds the opacity trigger level, the permittee shall, as appropriate, initiate an inspection of the control equipment and/or the COM system and make any necessary repairs. If five (5) percent or greater of the COM data (excluding startup, shut down, and malfunction periods, data averaged over six minute period) recorded in a calendar quarter show excursions above the opacity trigger level, the permittee shall perform a stack test in the following calendar quarter to demonstrate compliance with the particulate standard while operating at representative conditions. The permittee shall submit a compliance test protocol as required by the Performance Test Notice and Report requirements in the General Conditions of this permit before conducting test. The Division may waive this testing requirement upon a demonstration that the cause(s) of the excursions have been corrected, or may require a stack test at any time pursuant to 401 50:045, Performance Test. [40 CFR 64, 401 KAR 52:020]. [401 KAR 61:015 Section 6(3)]</p>
T-16	<p>Monitoring:</p> <p>c) To meet the periodic monitoring requirement for opacity, the permittee shall use a continuous opacity monitor (COM). Excluding the startup, shutdown, and once per hour exemption periods, if any six-minute average opacity value exceeds the opacity standard, the permittee shall, as appropriate, initiate an inspection of the control equipment and/or COM system and make any necessary repairs. If visible emissions are seen, then opacity must be determined using Reference Method 9, or by accepting the concurrent readout from the COM and the permittee shall perform an inspection of the control equipment and make any necessary repairs. If a Method 9 cannot be performed, the reason for not performing the test shall be documented. [401 KAR 52:020 Section 10]</p>
T-17	<p>Monitoring:</p> <p>d) To meet the periodic monitoring requirement for sulfur dioxide, the permittee shall use a continuous emission monitor (CEM). Excluding the startup and shutdown periods, if any 24-hour average sulfur dioxide value exceeds the standard, the permittee shall, as appropriate, initiate an investigation of the cause of the exceedence and/or the CEM system and make any necessary repairs or take corrective actions as soon as practicable. [401 KAR 52:020 Section 10]</p>
T-18	<p>Monitoring:</p> <p>e) A continuous monitoring system for opacity shall conform to requirements of this section which include installing, calibrating, operating, and maintaining the continuous monitoring system for accurate opacity measurement, and demonstrating compliance with the applicable Performance Specification 1 of 40 CFR 60, Appendix B. [401 KAR 61:005 Section 3]</p>

## Title V-Operating Permit

East KY Power - Dale Station  
Facility Requirements

Activity ID No.: APE20040001

Page 25 of 35

### Narrative Requirements:

#### Monitoring:

Condition No.	Condition
T-19	<p>Monitoring:</p> <p>Compliance Assurance Monitoring (CAM)</p> <p>Pursuant to 40 CFR 64, in order to demonstrate compliance with the particulate matter (PT) emission limit and assurance of proper function of the control equipment:</p> <p>Monitoring Methods: Installation of COM at the outlet of the ESP and monitoring of the ESP electrical field and other relevant parameters.</p> <p>Indicator Range: (1) Use established COM and equipment parameter indicator ranges, including ESP electrical fields, as appropriate or (2) establish compliance with the PM limit at 20% opacity. The permittee must conduct weekly stack observations. If visible emissions are seen, the permittee must conduct an EPA Reference Method 9 observation to determine the opacity of the emissions.</p> <p>Data Collection Frequency: (1) Continuous COM and control device operating parameters, or (2) weekly observations.</p> <p>Averaging Period: (1) Opacity - 6 minute averages COM control device parameters - 3 hours, or (2) Visible Emission Surveys - 1 minute: EPA Reference Method 9</p> <p>Recordkeeping: COM data system records and control device parameters will be maintained for a period of 5 years or visible observation records and EPA Reference Method 9 observations will be kept in designated logbook and maintained for a period of 5 years.</p> <p>Quality Control: COM will be maintained and operated in accordance with 401 59:005/40 CFR Appendix B and/or other requirements as are applicable, ESP monitored parameters will be maintained and operated in accordance with manufacturer recommendations; or records of EPA Reference Method 9 certifications will be maintained. [40 CFR 64]</p>



## Title V-Operating Permit

East KY Power - Dale Station

Facility Requirements

Activity ID No.: APE20040001

Page 26 of 35

### Narrative Requirements:

#### Reporting Requirements:

Condition No.	Condition
T-20	<p>Reporting Requirements:</p> <p>Specific Reporting Requirements:</p> <p>a) Pursuant to Regulation 401 61:005, Section 3(16), minimum data requirements which follow shall be maintained and furnished in the format specified by the Division.</p> <p>1. Owners and operators of facilities required to install continuous monitoring systems for opacity and sulfur dioxide or those utilizing fuel sampling and analysis for sulfur dioxide emissions shall submit for every calendar quarter, a written report of excess emissions and the nature and cause of the excess emissions if known. The averaging period used for data reporting should correspond to the emission standard averaging period which is a twenty-four (24) hour averaging period. All quarterly reports shall be postmarked by the thirtieth (30th) day following the end of each calendar quarter. [401 KAR 61:005 Section 3(16)(a)]</p>
T-21	<p>Reporting Requirements:</p> <p>2. For gaseous measurements the summary shall consist of hourly averages in the units of the applicable standard. [401 KAR 61:005 Section 3(16)(c)]</p>
T-22	<p>Reporting Requirements:</p> <p>3. The date and time identifying each period during which the continuous monitoring system was inoperative, except for zero and span checks, and the nature of system repairs or adjustments shall be reported. Proof of continuous monitoring system performance is required as specified by the Division whenever system repairs or adjustments have been made. [401 KAR 61:005 Section 3(16)(d)]</p>
T-23	<p>Reporting Requirements:</p> <p>4. When no excess emissions have occurred and the continuous monitoring system(s) have not been inoperative, repaired, or adjusted, such information shall be included in the report. [401 KAR 61:005 Section 3(16)(e)]</p>
T-24	<p>Reporting Requirements:</p> <p>5. The permittee shall report the number of excursions (excluding startup, shutdown, malfunction data) above the opacity standard, date and time of excursions, opacity value of the excursions, and percentage of the COM data showing excursions above the opacity standard in each calendar quarter. [401 KAR 61:005 Section 2]</p>

## Title V-Operating Permit

East KY Power - Dale Station

Facility Requirements

Activity ID No.: APE20040001

Page 27 of 35

### Narrative Requirements:

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Condition No.	Condition
T-25	Testing Requirements:  a) The permittee shall submit a schedule within six months from the issuance date of this permit to conduct at least one performance test for particulate within one year following the issuance of this permit. [401 KAR 61:005 Section 2]
T-26	b) If no additional stack tests are performed pursuant to Condition b) of "Specific Monitoring Requirements", the permittee shall conduct a performance test for particulate emissions within the third year of the term of this permit to demonstrate compliance with the applicable standard. [401 KAR 61:005 Section 2]
T-27	Specific Control Equipment Operating Conditions:  a) The electrostatic precipitator shall be operated as necessary to maintain compliance with permitted emission limitations, in accordance with manufacturer's specifications and/or good operating practices.  b) Records regarding the maintenance of the electrostatic precipitator shall be maintained.  c) See Section C for further requirements. [401 KAR 52:020]

## Title V-Operating Permit

East KY Power - Dale Station

Facility Requirements

Activity ID No.: APE20040001

Page 28 of 35

### Narrative Requirements:

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Condition

No.

Condition

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T-28

ACID RAIN PERMIT

SO2 Allowance Allocation and NOx Requirements for Unit 03:

SO2 Allowances (Table 2, 3, or 4 of 40 CFR Part 73)

2004	1983*
2005	1983*
2006	1983*
2007	1983*
2008	1983*
2009	1983*
2010	1693*

\*The number of allowances allocated to Phase II affected units by the U.S. EPA may change under 40 CFR Part 73. In addition, the number of allowances actually held by an affected source in a unit may differ from the number allocated by the U.S. EPA. Neither of the aforementioned conditions necessitate a revision to the unit SO2 allowance allocation identified in this permit. (See 40 CFR 72.84)

NOx Requirements

NOx Limits

Pursuant to 40 CFR Part 76, the Kentucky Division for Air Quality approves a NOx early election plan for Unit 3. The NOx compliance plan is effective for calendar years 2000 through 2007. Under the NOx compliance plan, this unit's annual average NOx emission rate for this year, determined in accordance with 40 CFR 75, shall not exceed the applicable emission limitation, under 40 CFR 76.5(a)(2), of 0.50 lb/mmBtu for dry bottom wall-fired boiler. If the unit is in compliance with its applicable emission limitation for each year of the plan, then the unit shall not be subject to the applicable limitation, under 40 CFR 76.7(a)(2), of 0.46 lb/mmBtu until calendar year 2008.

In addition to the described NOx compliance plan, this unit shall comply with all other applicable requirements of 40 CFR Part 76, including the duty to reapply for a NOx compliance plan and requirements covering excess emissions. [401 KAR 52:060 Section 2]

## Title V-Operating Permit

East KY Power - Dale Station

Facility Requirements

Activity ID No.: APE20040001

Page 29 of 35

### Narrative Requirements:

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Condition

No.

Condition

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T-29

ACID RAIN PERMIT

SO2 Allowance Allocation and NOx Requirements for Unit 04:

SO2 Allowances (Table 2, 3, or 4 of 40 CFR Part 73)

2004	1847*
2005	1847*
2006	1847*
2007	1847*
2008	1847*
2009	1847*
2010	1400*

\*The number of allowances allocated to Phase II affected units by the U.S. EPA may change under 40 CFR Part 73. In addition, the number of allowances actually held by an affected source in a unit may differ from the number allocated by the U.S. EPA. Neither of the aforementioned conditions necessitate a revision to the unit SO2 allowance allocation identified in this permit. (See 40 CFR 72.84)

NOx Requirements

NOx Limits

Pursuant to 40 CFR Part 76, the Kentucky Division for Air Quality approves a NOx early election plan for Unit 3. The NOx compliance plan is effective for calendar years 2000 through 2007. Under the NOx compliance plan, this unit's annual average NOx emission rate for this year, determined in accordance with 40 CFR 75, shall not exceed the applicable emission limitation, under 40 CFR 76.5(a)(2), of 0.50 lb/mmBtu for dry bottom wall-fired boiler. If the unit is in compliance with its applicable emission limitation for each year of the plan, then the unit shall not be subject to the applicable limitation, under 40 CFR 76.7(a)(2), of 0.46 lb/mmBtu until calendar year 2008.

In addition to the described NOx compliance plan, this unit shall comply with all other applicable requirements of 40 CFR Part 76, including the duty to reapply for a NOx compliance plan and requirements covering excess emissions. [401 KAR 52:060 Section 2]

## Title V-Operating Permit

East KY Power - Dale Station  
Facility Requirements

Activity ID No.: APE20040001

Page 30 of 35

### GACT7 (Em. Pt 006) Haul Roads and Coal Stockpile:

#### Narrative Requirements:

##### Applicable Regulations:

Condition No.	Condition
T-1	<p>Applicable Regulations:</p> <p>a) Pursuant to Regulation 401 KAR 63:010, Section 3, reasonable precaution shall be taken to prevent particulate matter from becoming airborne. Such reasonable precautions shall include, when applicable, but not be limited to the following:</p> <p>1. Application and maintenance of asphalt, oil, water, or suitable chemicals on roads, material stockpiles, and other surfaces which can create airborne dusts. [401 KAR 63:010 Section 3(1)(b)]</p>
T-2	<p>Applicable Regulations:</p> <p>2. Installation and use of hoods, fans, or fabric filters to enclose and vent the handling of dusty materials, or the use of water sprays or other measures to suppress the dust emissions during handling. [401 KAR 63:010 Section 3(1)(c)]</p>
T-3	<p>Applicable Regulations:</p> <p>b) Pursuant to Regulation 401 KAR 63:010, Section 3, no person shall cause or permit the discharge of visible fugitive dust emissions beyond the lot line of the property on which the emissions originate. [401 KAR 63:010 Section 3(2)]</p>

##### Recordkeeping:

Condition No.	Condition
T-4	<p>Recordkeeping:</p> <p>Specific Recordkeeping Requirements:</p> <p>See Section D. [401 KAR 52:020 Section 10]</p>

## Title V-Operating Permit

East KY Power - Dale Station

Facility Requirements

Activity ID No.: APE20040001

Page 31 of 35

### Narrative Requirements:

#### Monitoring:

Condition No.	Condition
T-5	<p>Monitoring:</p> <p>Specific Monitoring Requirments:</p> <p>The permittee shall monitor the amount of coal received and processed. [401 KAR 52:020 Section 10]</p>
T-6	<p>Specific Control Equipment Operating Conditions:</p> <p>a) The control equipment (including but not limited to hood, enclosure, use of dust suppressant/foam, telescopic chute, and water spray system) shall be operated as necessary to maintain compliance with applicable requirements in accordance with manufacturer's specifications and/or standard operating practices. [401 KAR 52:020 Section 10]</p>
T-7	<p>Records regarding the maintenance of the control equipment shall be maintained. [401 KAR 52:020 Section 10]</p>
T-8	<p>See Section C for further requirements. [401 KAR 52:020 Section 10]</p>

## Title V-Operating Permit

East KY Power - Dale Station

Facility Requirements

Activity ID No.: APE20040001

Page 32 of 35

### GACT8 (Em. Pt 005) Coal Handling Equipment Constructed 1969

#### Limitation Requirements:

Condition No.	Parameter	Condition
L-1	PT (Particulate Matter)	<p>Each unit shall have a maximum emissions of PT (Particulate Matter) <math>\leq 64.7</math> lbs/hr. If the process weight rate for the unit is 1,000 lbs/hr or less, the limit on emissions of particulate matter is 2.58 lb/hr. If the process weight rate for the unit is above 1,000 lbs/hr but no greater than 60,000 lbs/hr, the limit on emissions of particulate matter from the unit can be determined (in lbs/hr) by taking the process weight rate for materials introduced into the unit (in tons/hr), raising the process weight rate value to the 0.67 power, and multiplying by 4.10 (maximum = <math>4.10 \times \text{process weight rate}^{0.67}</math>). If the process weight rate for the unit is above 60,000 lbs/hr, the limit on emissions of particulate matter from the unit can be determined (in lbs/hr) by taking the process weight rate for materials introduced into the unit (in tons/hr), raising the process weight rate value to the 0.11 power, and multiplying by 55.0 then subtracting 40 (maximum = <math>55.0 \times \text{process weight rate}^{0.11} - 40</math>).</p> <p>Compliance Demonstration</p> <p>Compliance will be demonstrated from the following emission calculation basis and monitoring requirements: PT emission in pounds per hour = (monthly processing rate in tons/month)(1 month/hours of operation that month)(emission factor lb PM/ton)(1-control efficiency of 0.70).</p> <p>See Monitoring Requirements for monitoring rates and visual inspection of controls. [401 KAR 61:020 Section 3(2)] Statistical basis: Three-hour average.</p>
L-2	Visible Emissions	Each unit shall have Visible Emissions < 40 % opacity. [401 KAR 61:020 Section 3(1)] Statistical basis: Six-minute average.

#### Narrative Requirements:

##### Applicable Regulations:

Condition No.	Condition
T-1	Applicable Regulations: Existing process operations is applicable to each affected facility associated with a process operation commenced before July 2, 1975 and limits particulate emissions. [401 KAR 61:020]

## Title V-Operating Permit

East KY Power - Dale Station

Facility Requirements

Activity ID No.: APE20040001

Page 33 of 35

### Narrative Requirements:

#### Recordkeeping:

Condition No.	Condition
T-2	<p>Recordkeeping:</p> <p>Specific Recordkeeping Requirements:</p> <p>a) Records of the amount of coal received and processed shall be maintained.</p> <p>b) The permittee shall maintain records of the following: 1) monthly hours of operation and material processing rate; 2) the weekly log of qualitative visual observation of opacity of emissions and the opacity determined by Reference Method 9, if any were taken, and repairs that were made due to any opacity reading which exceeded the standard. [401 KAR Chapter 52 Section 10]</p>

#### Monitoring:

Condition No.	Condition
T-3	<p>Monitoring:</p> <p>Specific Monitoring Requirements:</p> <p>a) The permittee shall perform a qualitative visible observation of the opacity of emissions from each stack on a weekly basis and maintain a log of the observation. If visible emission from a stack are seen, then the opacity shall be determined by EPA Reference Method 9 and an inspection shall be initiated for any necessary repairs.</p> <p>b) The permittee shall monitor the operating rate and hours of operation on a daily basis. [401 KAR 52:020 Section 10]</p>



## Title V-Operating Permit

East KY Power - Dale Station

Facility Requirements

Activity ID No.: APE20040001

Page 34 of 35

### Narrative Requirements:

#### Reporting Requirements:

Condition No.	Condition
T-4	<p>Reporting Requirements:</p> <p>Specific Reporting Requirements:</p> <p>See Section D. [401 KAR 52:020 Section 10]</p>
T-5	<p>Specific Control Equipment Operating Conditions:</p> <p>a) The control equipment (including but not limited to hood, enclosure, use of dust suppressant/foam, telescopic chute, and water spray system) shall be operated as necessary to maintain compliance with applicable requirements in accordance with manufacturer's specifications and/or standard operating practices. [401 KAR 52:020 Section 10]</p>
T-6	Records regarding the maintenance of the control equipment shall be maintained. [401 KAR 52:020 Section 10]
T-7	See Section C for further requirements. [401 KAR 52:020 Section 10]

## Title V-Operating Permit

East KY Power - Dale Station  
Facility Requirements

Activity ID No.: APE20040001

Page 35 of 35

### **GACT10 (INSIG. EQPT 3, 6, 7, & 8) Insignificant Activities:**

#### Narrative Requirements:

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Condition No.	Condition
T-1	The activities within this group have been determined to be insignificant activities for this source pursuant to 401 KAR 52:020 Section 6. While these activities are designated as insignificant the permittee must comply with the applicable regulation and some minimal level of periodic monitoring may be necessary. [401 KAR 52:020 Section 6]